Kids Code!
Volunteer Guide

In the *Kids Code!* Activity Kit Guide, you will learn about teaching students the basics of coding using the IBM Bluemix™ platform. This activity is very flexible. Depending on your interests, you can introduce programming basics or extend the course for kids with more advanced coding skills.

Before you share the step-by-step presentation, you must:

- Register for an IBM Bluemix ID
- Register for an IBM DevOps Services IDs. You don't need to be an IBM employee to get these — they are available to anyone
- Watch a YouTube video that explains the activity

You should also familiarize yourself with the *Kids Code* cards. The *Kids Code!* Cards walk you through the Bluemix programming activity step-by-step. On presentation day, you'll want copies of all three cards for each student and one set for yourself.

Registering for IBM Bluemix ID and trial

IBM Bluemix is a Platform-as-a-Service (PaaS) environment that hosts the applications you write and makes them accessible over the Internet for use by others. You only need a web browser and an IBM Bluemix ID to use the service.

1. To register for an ID go to **ibm.biz**/bluemix4kids and click "SIGN UP".
2. Fill in the fields to create an ID and start your free trial of the Bluemix platform. You will get a 30-day free trial of the Bluemix platform which includes unlimited use of selected IBM services, the ability to run applications up to 2GB of total memory, and free extended support for help tickets. After your trial expires, you can continue to use Bluemix for free as long as you stay under the monthly usage limits.
3. Check your e-mail and open the e-mail from Bluemix with the confirmation of your trial. Note, this is typically quick, but sometimes it may take up to 24 hours before this e-mail is received.
4. In the e-mail, click the link "Click here to complete your registration" and follow the instructions.

You now have an IBM ID and access to Bluemix. If you LOG IN to Bluemix, you see the catalog of services available for use. The *Kids Code!* Activity Kit uses the Node.js Runtime and the Redis Service.

Registering for IBM DevOps Services ID

IBM Bluemix is where your application will run, but you also need a place to develop your application. The *Kids Code!* Activity Kit uses IBM DevOps Services, an Integrated Development Environment (IDE) that is provided as a service. You edit code in DevOps Services environment and then deploy the applications to IBM Bluemix. All you need to use DevOps Services with Bluemix is to create a Jazz ID and associate it to your IBM ID.

1. On a separate tab in your browser, go to DevOps Services at https://hub.jazz.net and click "SIGN IN".
   Note: if you have a new IBM ID, it may take several minutes before you can sign in with it.
2. Once you sign in, you will be prompted to create your Jazz ID. This is a publically visible name that must be all lower case letters or numbers. You may want to try your first name or initials. Click the "Create" button and your Jazz ID will be generated.
3. Now you can sign in to DevOps Services, explore different projects, and begin using a shared, team-based Integrated Development Environment.

Your IBM ID is now ready for use in both DevOps Services and Bluemix.

Watch the YouTube video

Ruth Willenborg, a distinguished engineer with IBM, has created a YouTube video that walks you through the coding activity for the *Kids Code!* Activity Kit. Even if you have no development experience, you'll see – via this video – how simple coding can be. Ruth explains the steps to the activity and also the concepts behind them, such as Platform-as-a-Service, making it easy for you to do the same when you are working with kids. The entire video is only 3:24 long – so don't be daunted. Kids can code and so can you!

http://youtu.be/owCspJjkrQs

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